



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of )  
Shinji TAKEDA et al. ) Atty. Docket No.: **TM&K0006**  
Serial No. 09/785,194 )  
Filed: February 20, 2001 ) Group Art Unit: 2827  
For: SEMICONDUCTOR DEVICE AND ) Examiner: D. Graybill  
PROCESS FOR FABRICATION )  
THEREOF ) Date: July 7, 2003

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

This is a Supplemental Information Disclosure Statement with regard to the above-identified application. Copies of each of the documents listed in the attached Form PTO/SB/08B are attached.

In addition, the Examiner is advised that the following are related to the above-captioned application: U.S. Patent No. 6,099,678 and U.S. Patent Application Serial Nos. 08/981,702, 09/543,247, 09/616,943, 09/785,436, 09/785,486, and 10/428,126.

Documents D, G, H, I, J, P, Q, X, Y, Z, AC, and AE were cited in the Office Action dated January 4, 1999 (copy attached) in applicants' corresponding Application 08/875,330 (now U.S. Patent 6,099,678). Document D relates to die attach pickup tools. Document G relates to a taping apparatus for a lead frame. Document H relates to a method for combining die attach and lead bond in the assembly of a semiconductor package. Document I relates to a method for attaching a semiconductor die to a leadframe using a thermoplastic covered carrier tape. Document J relates to thermoplastic film die attach adhesives. Document P relates to a multi-chip electronic package module utilizing an adhesive sheet. Document Q relates to an

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apparatus for tape-mounting a semiconductor device. Document X relates to an adhesive tape for electronic parts and liquid adhesive. Document Y relates to a lead-on-chip integrated circuit apparatus. Document Z relates to method for sticking an insulating film to a lead frame. Document AC relates to rinse aid compositions containing modified acrylic polymers. Document AE relates to an insulating film with improved punching characteristics and lead frame using the same.

Documents L, O, R, AA, AD, AF, AI, AJ, AK, and BB were cited in the Office Action dated June 6, 2002 (copy attached) in applicants' corresponding Application 09/543,247. Document L relates to an electrical laminate with dibasic acid-modified epoxy (meth)acrylate. Document O relates to an epoxy resin molding material for sealing of electronic component. Document R relates to a thermosetting resin composition, cured resin product, prepreg and fiber-reinforced plastic. Document AA relates to an epoxy resin composition. Document AD relates to a naphthalene and or biphenyl skeleton containing epoxy resin composition. Document AF relates to a process for fabricating a crack resistant resin encapsulated semiconductor chip package. Document AI relates to a process for fabricating a crack resistant resin encapsulated semiconductor chip package. Document AJ relates to a process for fabricating a crack resistant resin encapsulated semiconductor chip package. Document AK relates to a heat-resistant adhesive sheet. Document BB relates to an electrically conductive resin paste.

Document AH was cited in the Office Action dated October 29, 2001 (copy attached)

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in applicants' corresponding Application 09/616,943. Document AH relates to polyimide and doped metal oxide fuser components.

Document AG was cited in the Office Action dated June 4, 2003 (copy attached) in applicants' corresponding Application 09/785,436. Document AG relates to a laminating method of film-shaped organic die-bonding material, die-bonding method, laminating machine and die-bonding apparatus, semiconductor device, and fabrication process of semiconductor device.

Documents A, K, and AB were cited in the Office Action dated October 4, 2002 (copy attached) in applicants' corresponding Application 09/785,436. Document A relates to polyimide manufacture. Document K relates to a method of producing flexible printed-circuit board covered with coverlay. Document AB relates to an adhesive polyimide siloxane composition employable for combining electronic parts.

Documents C, F, and N were cited in the Office Action dated December 19, 2001 (copy attached) in applicants' corresponding Application 09/785,486. Document C relates to a soluble polyimide-siloxane precursor, process for producing same, and cross-linked polyimide-siloxane. Document F relates to curable resin compositions. Document N relates to thermocurable compositions.

Document S was cited in a European Search Report dated March 24, 2003 (document BI) in applicants' corresponding European Application 03001585.3. Document S relates to resins of low thermal expansivity.

The relevance of documents cited in office actions and search reports of corresponding applications is clear from the office actions and search reports respectively.

Documents T, U, AL, AT, AU, AW, AZ, BA and BC were cited in document BF which is a list of references in a Japanese Opposition for corresponding Japanese Patent No. 3215014. Document T relates to a semiconductor device and its manufacture. Document U relates to a molding method. Document AL relates to a chip holder solder device. Document AT relates to the manufacture of a semiconductor package. Document AU relates to the manufacture of a submounting member. Document AW relates to equipment and method for attaching bonding tape. Document AZ relates to an adhesive tape for die bonding. Document E is the U.S. counterpart of document AZ (JP-64-19735). Document BA relates to adhesive tape. Document BC relates to types of rubber and their chemical structure. The relevance of these documents is clear from document BF.

Documents B, M, V, AM, AN, AO, AP, AQ, AS, AV, and AY were cited in a corresponding Japanese Application 2000-346979 in the Notice of Reason for Refusal mailed on October 22, 2002, document BD. Document B relates to a tape applying device. Document M relates to semiconductor encapsulating epoxy resin compositions and semiconductor devices. Document V relates to a semiconductor device and its manufacture. Document AM relates to an apparatus for attaching film. Document AN relates to a hot melt bonding electrically conductive filmy adhesive. Document AO relates to a tab pasting method and device thereof. Document AP relates to an epoxy resin composition for sealing

semiconductors and semiconductor devices. Document AQ relates to a heat-resistant adhesive material and its application method. Document AS relates to a pellet bonding method. Document AV relates to a tape adhering device. Document AY relates to a method of manufacturing an adhesive film. The relevance of these documents is clear from document BD.

Document W was cited in a corresponding Japanese Application 7-173493 in the Notice of Reason for Refusal mailed on August 29, 2000, document BH. Document W relates to a film applying method and the relevance of this document is clear from document BH.

Documents AR and AX were cited in a corresponding International Application PCT/JP95/02691 in an International Search Report mailed April 2, 1996 (document BL). Document AR relates to a friction press welding method for aluminum alloy and carbon steel. Document AX relates to a compression bonding device of metal foils and pieces. The relevance of these documents is clear from document BL.

Document BK was cited in an Opposition (document BJ) raised against corresponding Japanese Patent 3117966. Document BK relates to a plastic reader. The relevance of this documents is clear from document BJ.

Document BE is an Opposition raised against corresponding Japanese Patent 3187400. Document BG is a European Search Report dated July 15, 2002 for a corresponding European application. Document BM is a Notice of Reason for Refusal for the

Serial No. 09/785,194

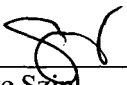
corresponding Japanese Patent Application 2000-156125. Document BN is a European Search Report dated October 28, 1998 in corresponding European Application EP96922225.

It is respectfully requested that the attached documents be considered and officially cited, and that a copy of the Form PTO/SB/08B, initialed by the Examiner to indicate that the documents have been considered, be returned to the applicants.

This information disclosure statement is being filed with the check covering the government fee of \$180.00. The Commissioner is hereby authorized to charge any fee deficiency or any additional fees which may be further required in this application, or credit any overpayment to Deposit Account No. 501281, under an order number which corresponds to the above attorney docket number.

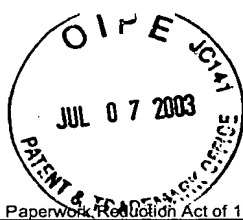
Respectfully submitted,

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

### Complete if Known

Application Number	09/785,194
Filing Date	February 20, 2001
First Named Inventor	Shinji TAKEDA
Art Unit	2422
Examiner Name	GRAYBILL, D.
Attorney Docket Number	TM&K0006

Sheet 1 of 6

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A	US- 4,358,581	11-09-1982	Sutton	
	B	US- 4,581,096	04-08-1986	Sato	
	C	US- 4,656,238	04-07-1987	Kunimune et al.	
	D	US- 4,875,279	10-24-1989	Sakiadis	
	E	US- 4,933,219	06-12-1990	Sakumoto et al.	
	F	US- 4,965,331	10-23-1990	Jackson et al.	
	G	US- 4,985,105	01-15-1991	Masuda	
	H	US- 5,145,099	09-08-1992	Wood et al.	
	I	US- 5,177,032	01-05-1993	Fogal et al.	
	J	US- 5,204,399	04-20-1993	Edelman	
	K	US- 5,234,522	08-10-1993	Suzuki et al.	
	L	US- 5,238,730	08-24-1993	Hanawa et al.	
	M	US- 5,250,637	10-05-1993	Shiobara et al.	
	N	US- 5,296,567	03-22-1994	Baumann et al.	
	O	US- 5,319,005	06-07-1994	Hagiwara et al.	
	P	US- 5,360,942	11-01-1994	Hoffman et al.	
	Q	US- 5,432,380	07-11-1995	Jin et al.	
	R	US- 5,476,908	12-19-1995	Kishi et al.	
		US-			

### FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	S	EP-0271736-A1	06-22-1988	Nippon Steel Chemical Co.		
	T	EP-0837498-A1	04-22-1998	Hitachi Chemical Co.		
	U	JP-3215014	09-20-1991	Seiko Instr.		
	V	JP-02-256251	10-17-1990	MATSUSHITA		
	W	JP-06-326240	11-25-1994	Hitachi Cable Co.		

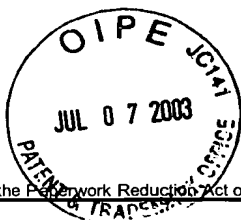
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Date  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 6

### Complete if Known

Application Number	09/785,194
Filing Date	February 20, 2001
First Named Inventor	Shinji TAKEDA
Art Unit	
Examiner Name	GRAYBILL, D.
Attorney Docket Number	TM&K0006

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	X	US- 5,512,628	04-30-1996	Sakumoto et al.	
	Y	US- 5,528,075	06-18-1996	Burns	
	Z	US- 5,635,009	06-03-1997	Kawamura et al.	
	AA	US- 5,659,004	08-19-1997	Takigawa et al.	
	AB	US- 5,728,473	03-17-1998	Inoue et al.	
	AC	US- 5,739,099	04-14-1998	Welch et al.	
	AD	US- 5,827,908	10-27-1998	Arai et al.	
	AE	US- 5,837,368	11-17-1998	Hiroe et al.	
	AF	US- 6,046,072	04-04-2000	Matsuura et al.	
	AG	US- 6,099,678	08-08-2000	Kotato et al.	
	AH	US- 6,201,945	03-13-2000	Schlueter, Jr. et al	
	AI	US- 6,248,613	06-19-2001	Matsuura et al.	
	AJ	US- 6,372,080	04-16-2002	Matsuura et al.	
	AK	US- 2001/0015484-A1	08-23-2001	Matsuura et al.	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	AL	JP-1-165635	11-20-1989	NEC Corp		
	AM	JP-3-228	01-07-1991	HITACHI CABLE		
	AN	JP-5-125337	05-21-1993	SUMITOMO BAKELI		
	AO	JP-5-152386	06-18-1993	SUMITOMO METAL		
	AP	JP-5-152466	06-18-1993	SHIN ETSU CHEM		
	AQ	JP-5-335379	12-17-1993	TORAY IND INC		

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Considered

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**Complete if Known**

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Sheet	4	of	6
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Application Number	09/785,194
Filing Date	February 20, 2001
First Named Inventor	Shinji TAKEDA
Art Unit	2
Examiner Name	GRAYBILL, D.
Attorney Docket Number	TM&K0006

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
	AX	JP-54-12266	01-29-1979	MITSUBISHI ELEC		
	AY	JP-62-141038	09-05-1987	Irokawa		
	AZ	JP-64-19735	06-12-1990	Tomeogawa Paper		
	BA	JP-64-22744	02-06-1989	Kansai NEC Corp.		
	BB	JP-7-90239	04-04-1995	SUMITOMO BAKELITE		

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Sheet

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of

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### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BC	"Rubber Elastomer Utility Notes", relates to types of rubber and their chemical structure and properties, July 20, 1991	
	BD	Notice of Reason for Refusal Japanese for Appln. No. 2000-346979 mailed on 10/22/2002 together with English Translation	✓
	BE	Opposition against Japanese Patent No. 3187400	
	BF	Opposition against Japanese Patent No. 3215014	
	BG	European Search Report dated July 8, 2002 (mailed July 15, 2002)	
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	BJ	Opposition against Japanese Patent No. 3117966	
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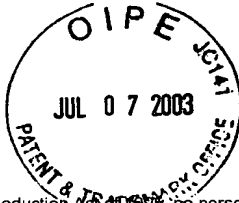
Examiner Signature		Date Considered	
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		Application Number	09/785,194
		Filing Date	February 20, 2001
		First Named Inventor	Shinji TAKEDA
		Art Unit	
		Examiner Name	GRAYBILL, D.
Sheet 6	of 6	Attorney Docket Number	TM&K0006

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BM	Notice of Reason for Refusal for Japanese Patent Application 2000-156125	✓
	BN	European Search Report dated October 28, 1998 in European Application EP96922225 (Mailed December 10, 1998)	

Examiner Signature		Date Considered	
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